

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092418\  
 Data File : BE097645.D  
 Acq On : 24 Sep 2018 15:08  
 Operator : SJ/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 24 16:29:21 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE092418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 16:28:05 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 684      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 3481     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2515     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.76 | 188  | 8067     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 20.97 | 240  | 8415     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 8016     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.07  | 112  | 335      | 0.16 | ng    | 0.01     |
| 5) Phenol-d6                | 6.64  | 99   | 257      | 0.10 | ng    | 0.02     |
| 8) Nitrobenzene-d5          | 8.57  | 82   | 341      | 0.13 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10 | 11.74 | 152  | 1074     | 0.22 | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol    | 15.54 | 330  | 159      | 0.15 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.64 | 172  | 1577     | 0.18 | ng    | 0.01     |
| 25) Fluoranthene-d10        | 18.81 | 212  | 16954    | 0.16 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.42 | 244  | 3230     | 0.21 | ng    | 0.00     |

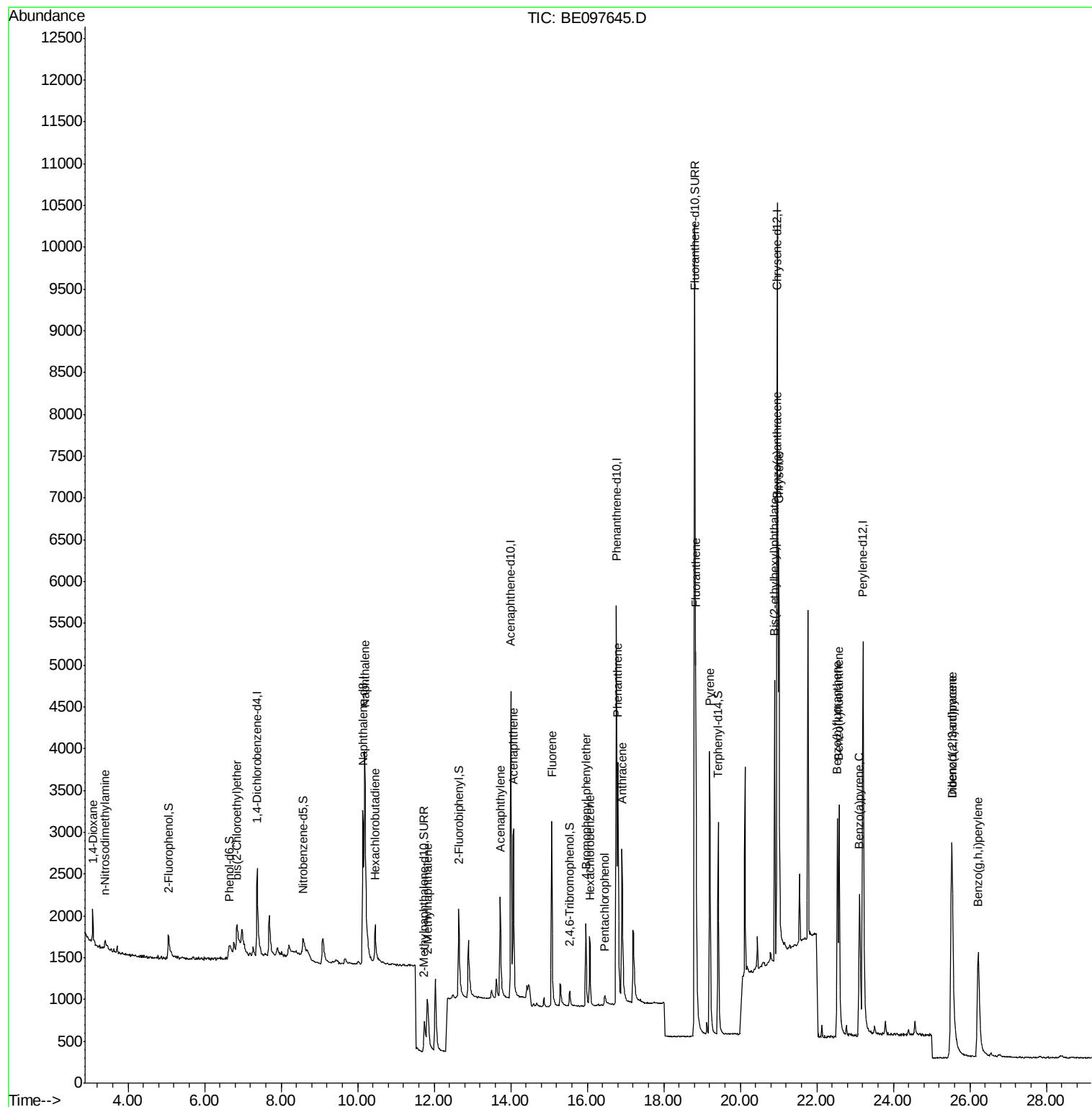
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.07  | 88   | 321      | 0.265 | ng    | # 72   |
| 3) n-Nitrosodimethylamine      | 3.40  | 42   | 124      | 0.116 | ng    | # 92   |
| 6) bis(2-Chloroethyl)ether     | 6.85  | 93   | 423      | 0.174 | ng    | # 53   |
| 9) Naphthalene                 | 10.19 | 128  | 6401     | 0.204 | ng    | # 95   |
| 10) Hexachlorobutadiene        | 10.46 | 225  | 288      | 0.199 | ng    | 96     |
| 12) 2-Methylnaphthalene        | 11.82 | 142  | 935      | 0.191 | ng    | 96     |
| 16) Acenaphthylene             | 13.73 | 152  | 1837     | 0.185 | ng    | 98     |
| 17) Acenaphthene               | 14.07 | 154  | 1276     | 0.191 | ng    | 96     |
| 18) Fluorene                   | 15.07 | 166  | 1758     | 0.202 | ng    | # 80   |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248  | 671      | 0.184 | ng    | # 84   |
| 21) Hexachlorobenzene          | 16.08 | 284  | 818      | 0.205 | ng    | # 83   |
| 22) Pentachlorophenol          | 16.46 | 266  | 120      | 0.086 | ng    | 92     |
| 23) Phenanthrene               | 16.80 | 178  | 3546     | 0.185 | ng    | 99     |
| 24) Anthracene                 | 16.90 | 178  | 2778     | 0.164 | ng    | 95     |
| 26) Fluoranthene               | 18.84 | 202  | 4136     | 0.156 | ng    | 98     |
| 28) Pyrene                     | 19.21 | 202  | 4452     | 0.232 | ng    | 100    |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 3387     | 0.160 | ng    | 97     |
| 31) Chrysene                   | 21.00 | 228  | 4833     | 0.213 | ng    | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 20.89 | 149  | 4247     | 0.101 | ng    | # 98   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.52 | 276  | 4793     | 0.175 | ng    | # 92   |
| 35) Benzo(b)fluoranthene       | 22.54 | 252  | 3760     | 0.183 | ng    | # 93   |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 4518     | 0.192 | ng    | # 91   |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 3844     | 0.182 | ng    | # 87   |
| 38) Dibenzo(a,h)anthracene     | 25.54 | 278  | 3860     | 0.179 | ng    | 95     |
| 39) Benzo(g,h,i)perylene       | 26.22 | 276  | 3946     | 0.188 | ng    | # 89   |

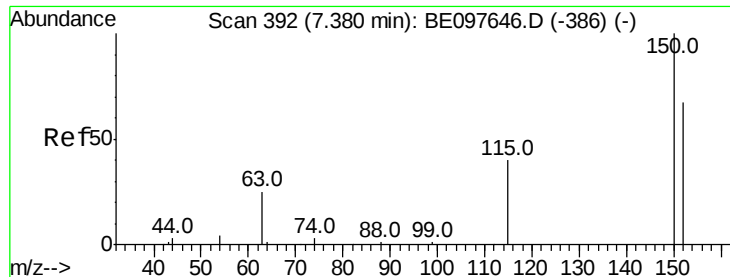
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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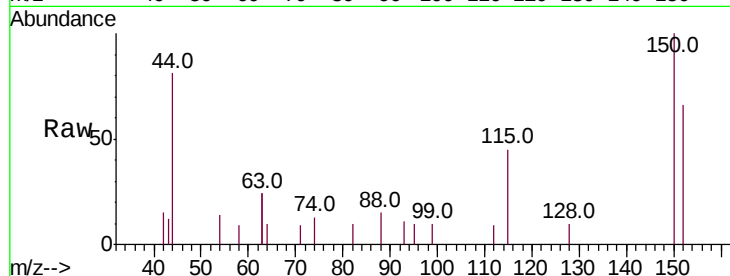


#1

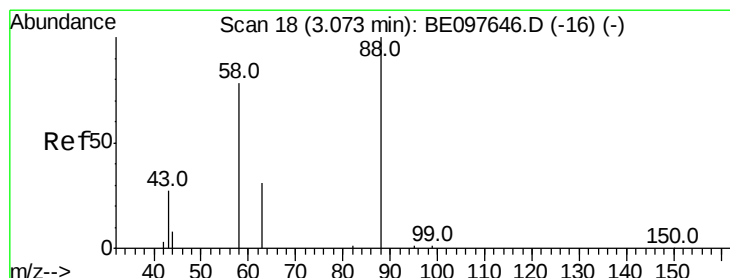
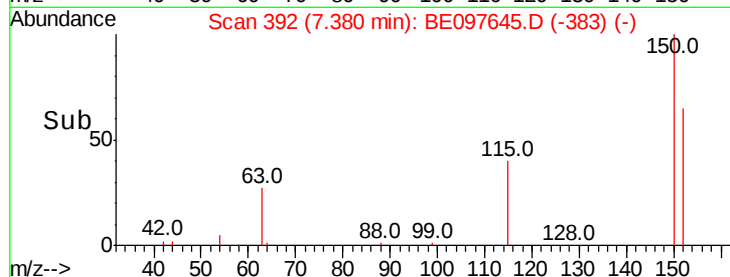
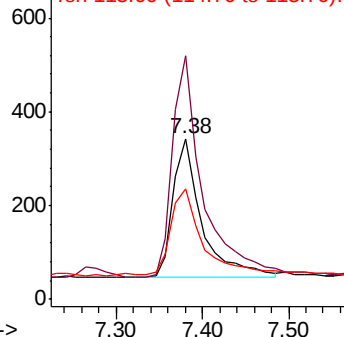
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. 0.00 min  
Lab File: BE097645.D  
Acq: 24 Sep 2018 15:08

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 684  
Ion Ratio Lower Upper  
152 100  
150 151.8 117.2 175.8  
115 69.0 57.0 85.6



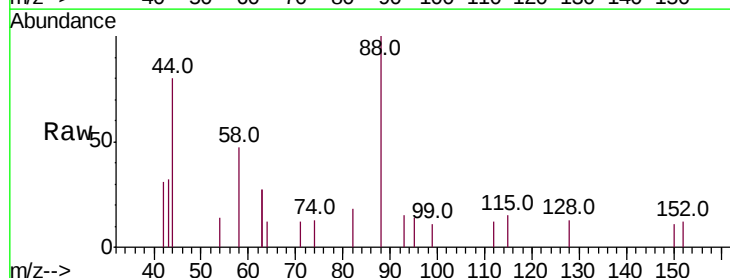
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



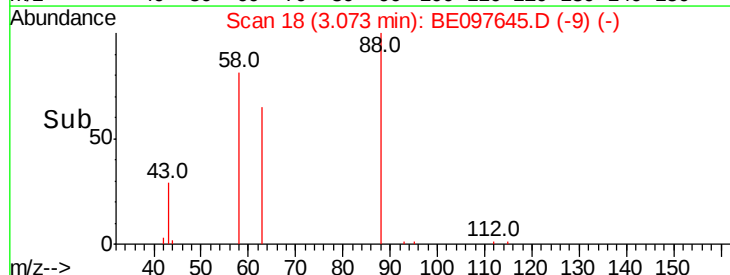
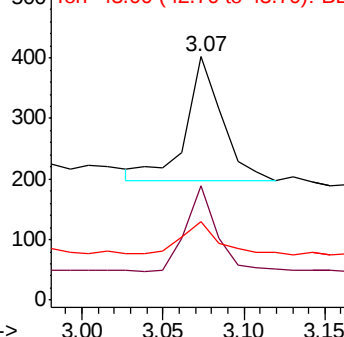
#2

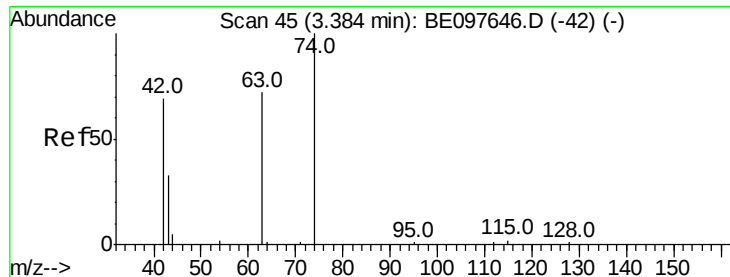
1,4-Dioxane  
Concen: 0.265 ng  
RT: 3.07 min Scan# 18  
Delta R.T. 0.00 min  
Lab File: BE097645.D  
Acq: 24 Sep 2018 15:08

Tgt Ion: 88 Resp: 321  
Ion Ratio Lower Upper  
88 100  
58 58.3 63.2 94.8#  
43 27.4 41.2 61.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.116 ng

RT: 3.40 min Scan# 46

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :

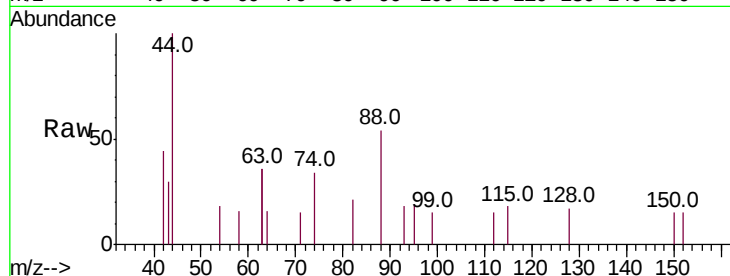
Tot Ion: 42 Resp: 124

Ion Ratio Lower Upper

42 100

74 128.2 96.0 144.0

44 11.3 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

400

300

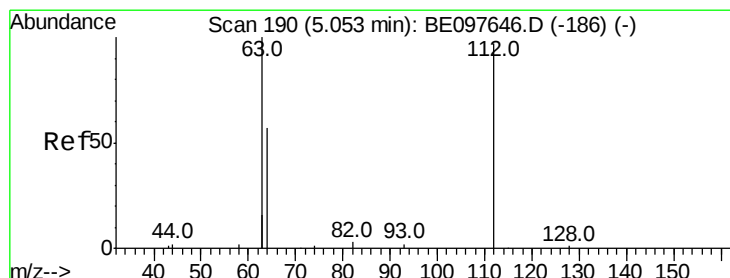
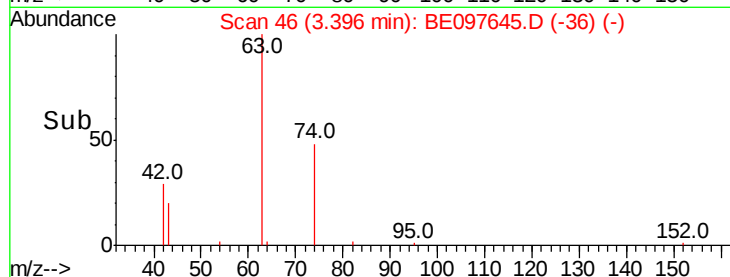
200

100

0

3.35 3.40 3.45

Time-->



#4

2-Fluorophenol

Concen: 0.163 ng

RT: 5.07 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

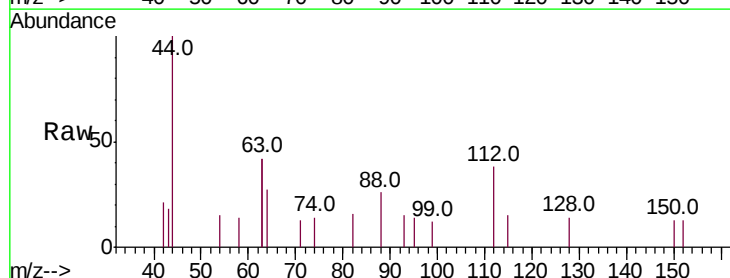
Tgt Ion: 112 Resp: 335

Ion Ratio Lower Upper

112 100

64 63.9 60.1 90.1

63 156.7 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

400

300

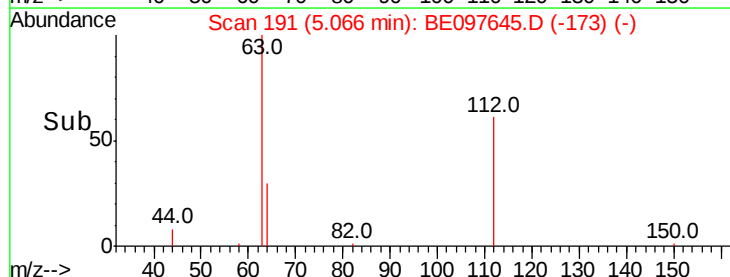
200

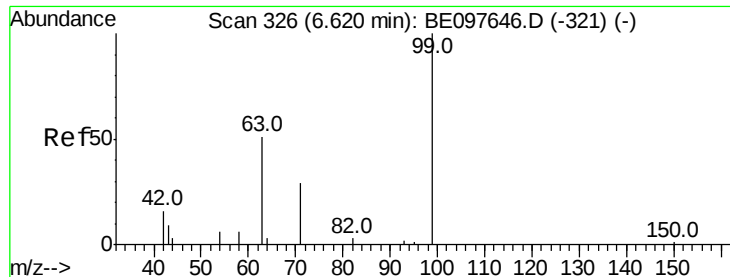
100

0

4.90 5.00 5.10 5.20

Time-->





#5

Phenol-d6

Concen: 0.098 ng

RT: 6.64 min Scan# 328

Delta R.T. 0.02 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :

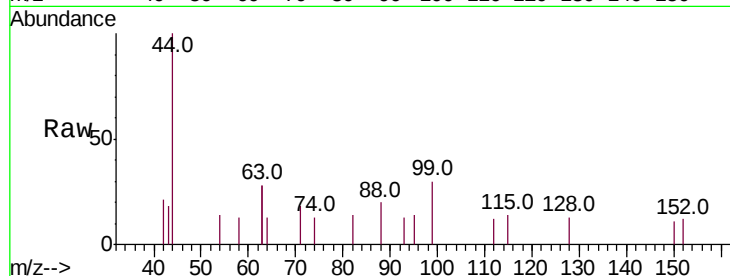
Tot Ion: 99 Resp: 257

Ion Ratio Lower Upper

99 100

42 23.0 20.2 30.2

71 29.2 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

6.64

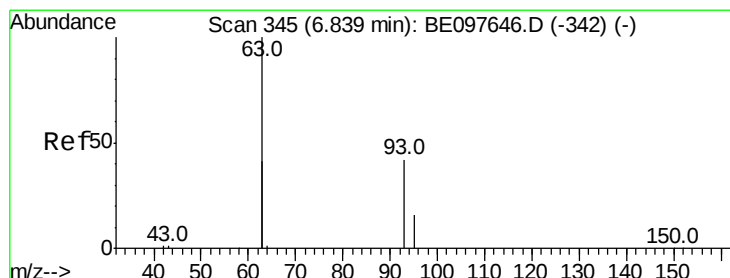
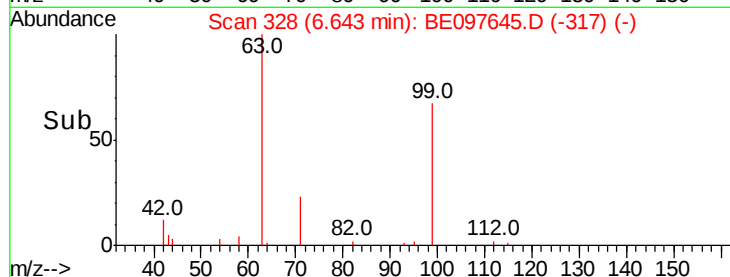
100

50

0

6.55 6.60 6.65 6.70

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.174 ng

RT: 6.85 min Scan# 346

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

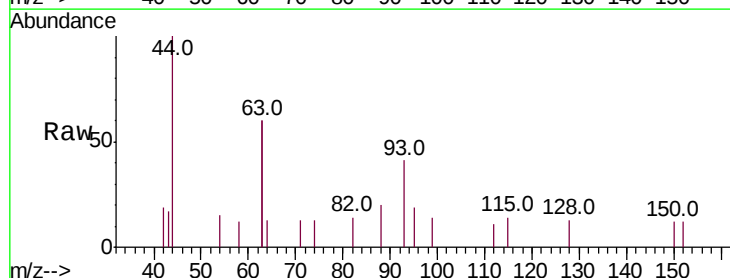
Tgt Ion: 93 Resp: 423

Ion Ratio Lower Upper

93 100

63 236.9 275.3 412.9#

95 20.8 25.2 37.8#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

6.85

600

500

400

300

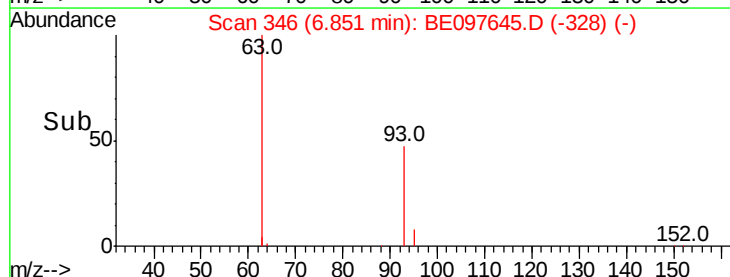
200

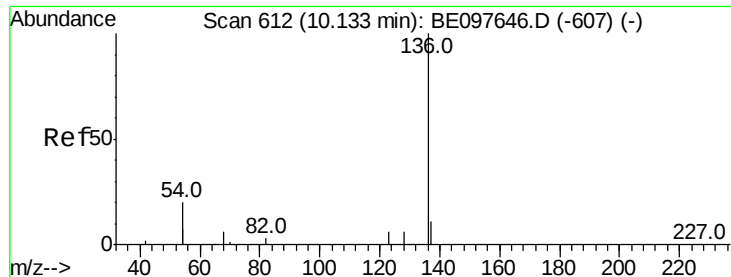
100

0

6.80 6.90 7.00

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.13 min Scan# 612

Delta R.T. -0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 3481

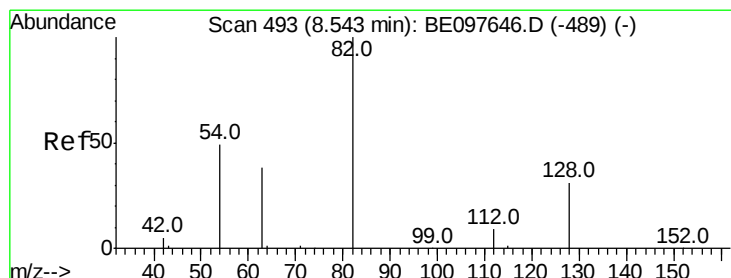
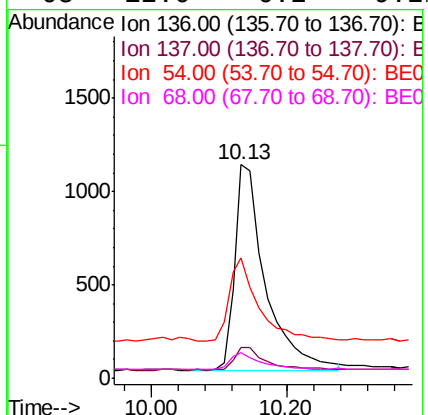
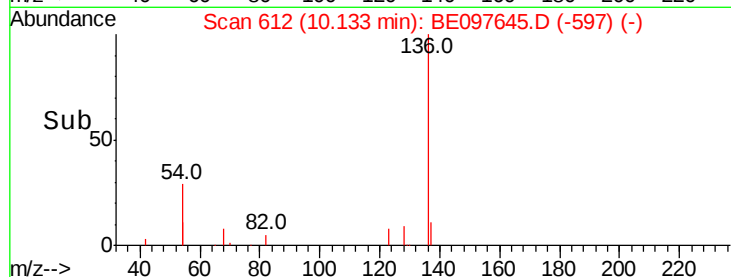
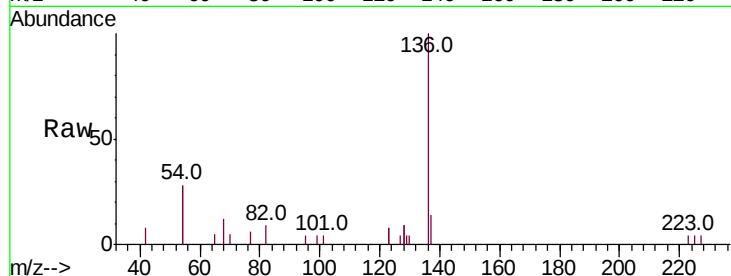
Ion Ratio Lower Upper

136 100

137 14.2 9.5 14.3

54 56.1 29.1 43.7#

68 12.0 6.2 9.2#



#8

Nitrobenzene-d5

Concen: 0.127 ng

RT: 8.57 min Scan# 495

Delta R.T. 0.02 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

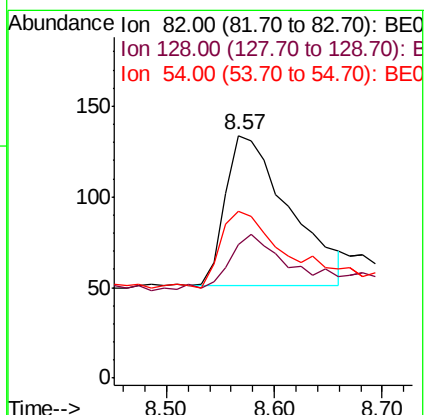
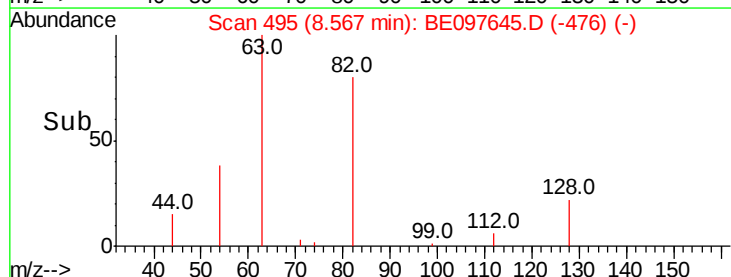
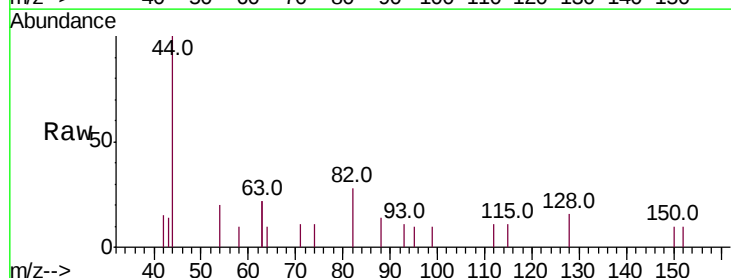
Tgt Ion: 82 Resp: 341

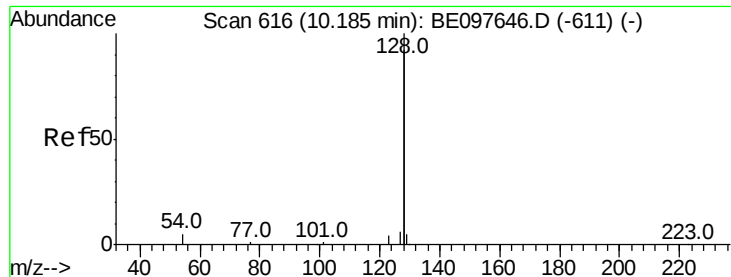
Ion Ratio Lower Upper

82 100

128 55.2 24.0 36.0#

54 68.7 40.0 60.0#





#9

Naphthalene

Concen: 0.204 ng

RT: 10.19 min Scan# 616

Delta R.T. -0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

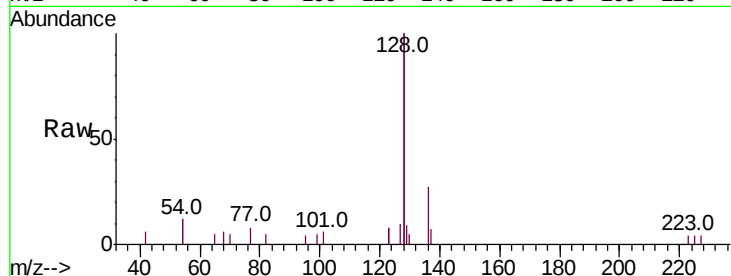
Tot Ion:128 Resp: 6401

Ion Ratio Lower Upper

128 100

129 4.7 2.6 3.8#

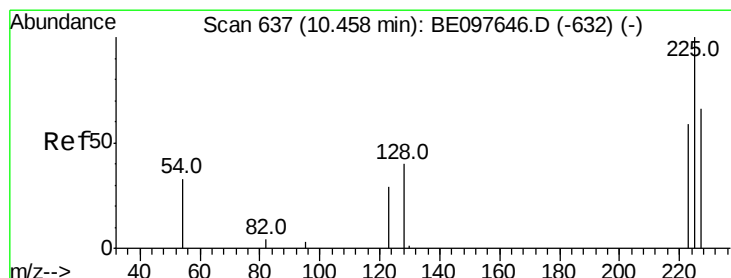
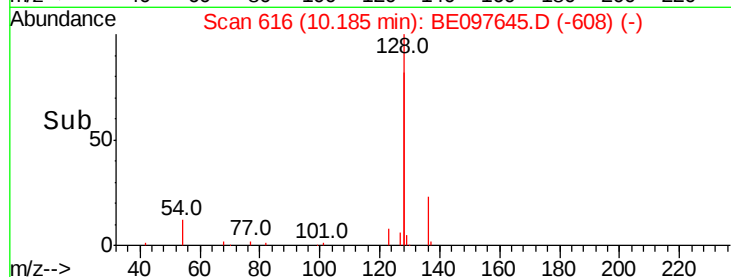
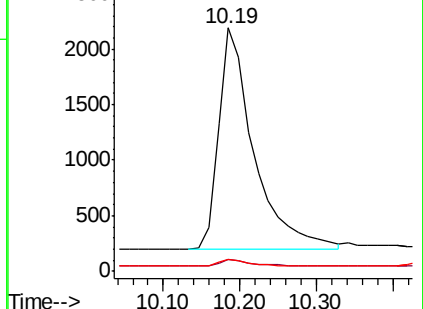
127 5.0 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.199 ng

RT: 10.46 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

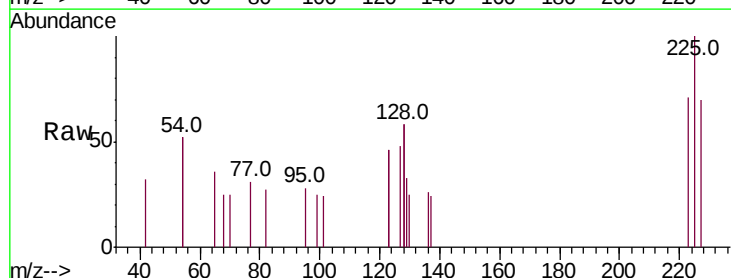
Tgt Ion:225 Resp: 288

Ion Ratio Lower Upper

225 100

223 60.8 53.0 79.6

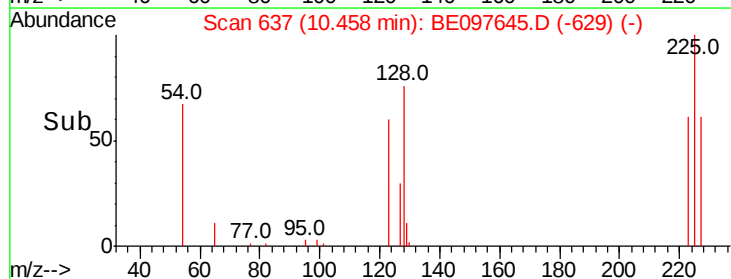
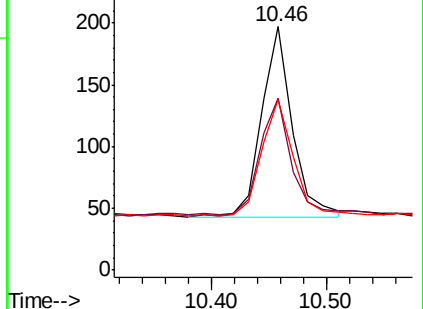
227 63.2 51.4 77.2

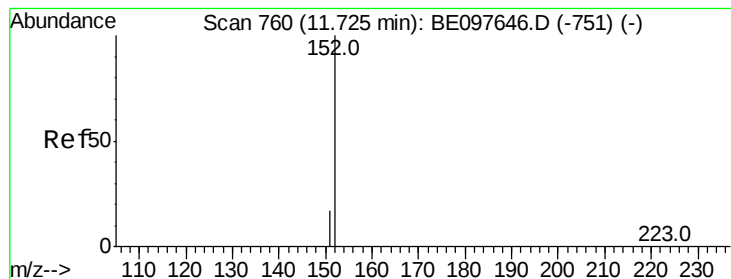


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.224 ng

RT: 11.74 min Scan# 764

Delta R.T. 0.02 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

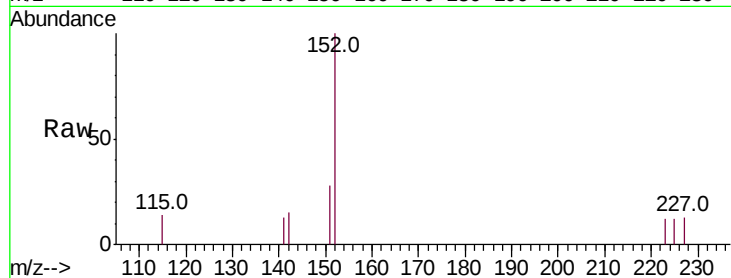
ClientSampleId :

Tot Ion:152 Resp: 1074

Ion Ratio Lower Upper

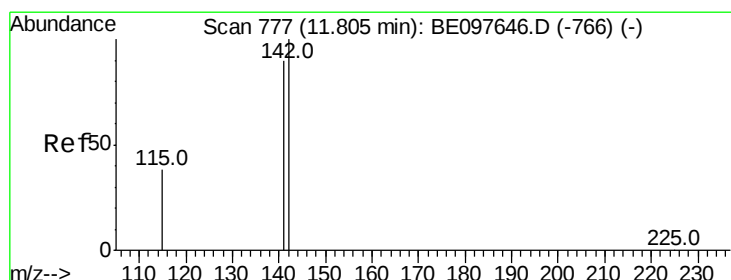
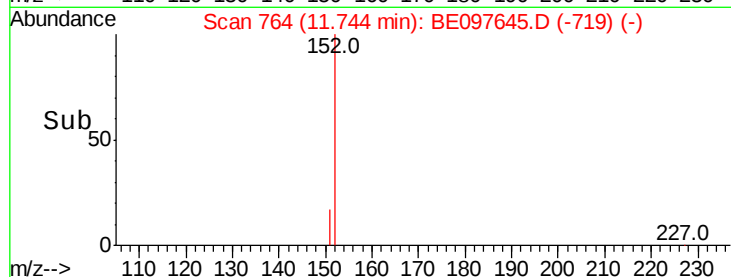
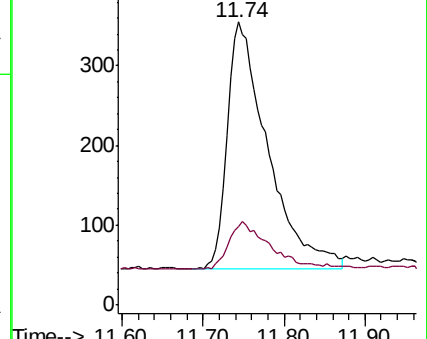
152 100

151 19.4 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.191 ng

RT: 11.82 min Scan# 781

Delta R.T. 0.02 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

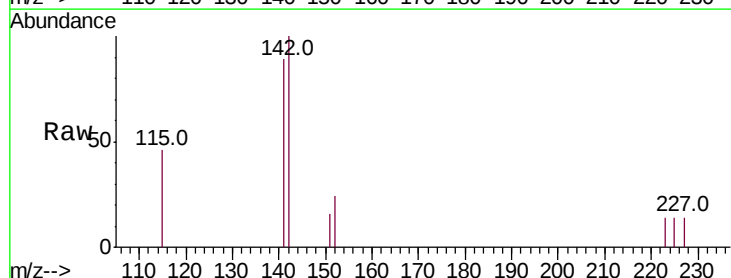
Tgt Ion:142 Resp: 935

Ion Ratio Lower Upper

142 100

141 88.6 70.4 105.6

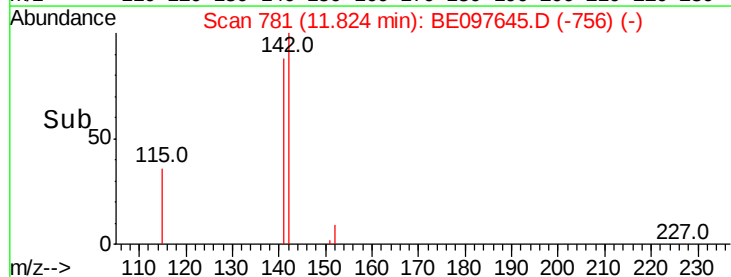
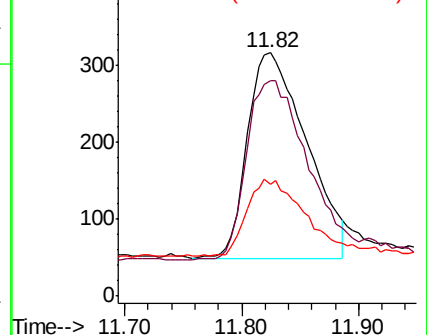
115 46.1 31.7 47.5

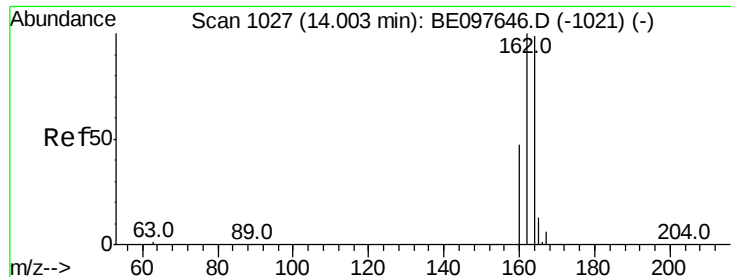


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.00 min Scan# 1026

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

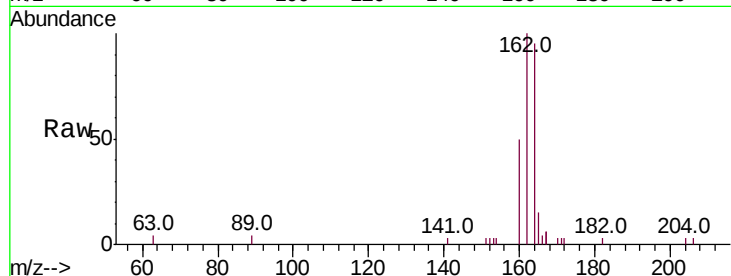
Tot Ion:164 Resp: 2515

Ion Ratio Lower Upper

164 100

162 104.8 83.1 124.7

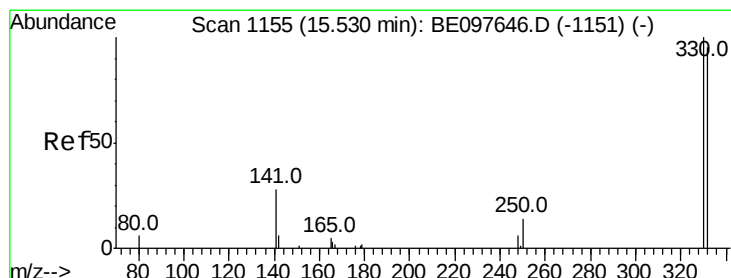
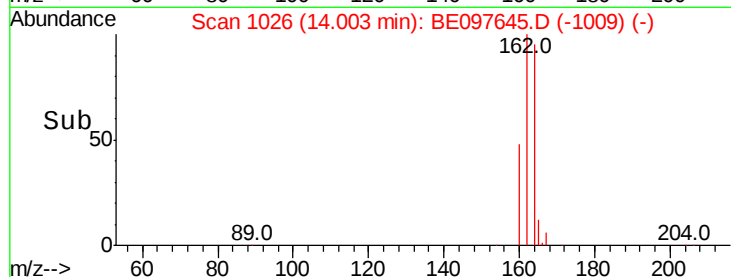
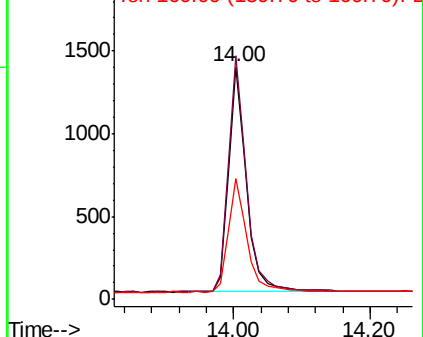
160 52.1 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

2000 Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.152 ng

RT: 15.54 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

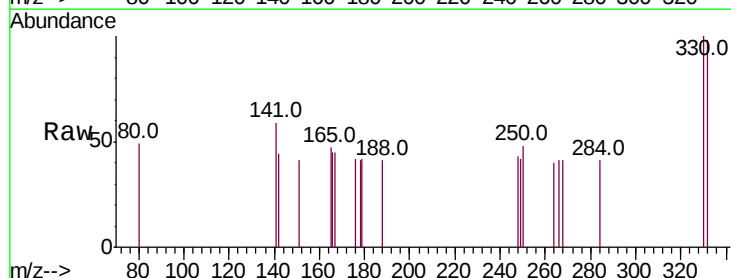
Tgt Ion:330 Resp: 159

Ion Ratio Lower Upper

330 100

332 100.0 152.7 229.1#

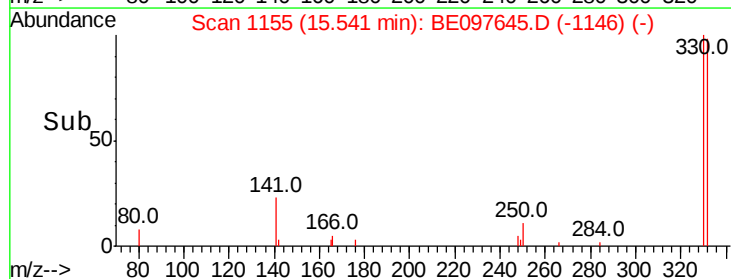
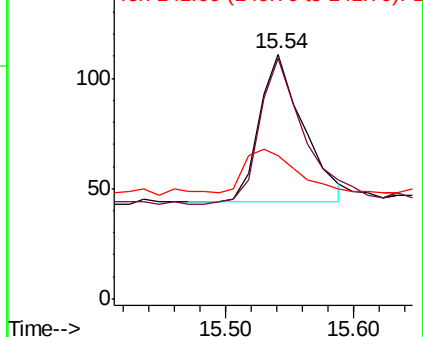
141 34.6 33.7 50.5

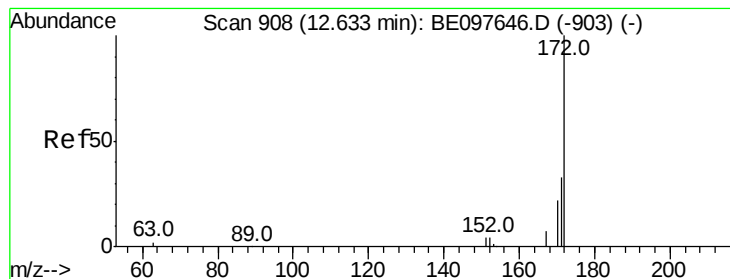


Abundance Ion 330.00 (329.70 to 330.70): E

150 Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.177 ng

RT: 12.64 min Scan# 908

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

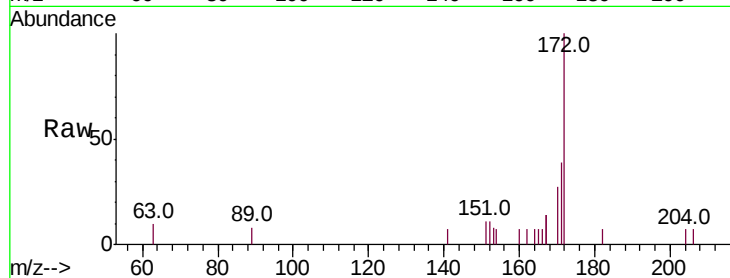
Tot Ion:172 Resp: 1577

Ion Ratio Lower Upper

172 100

171 38.7 29.9 44.9

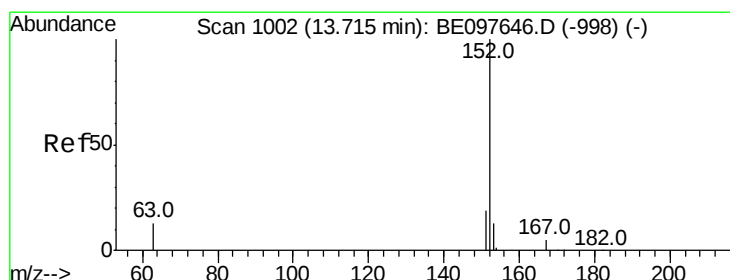
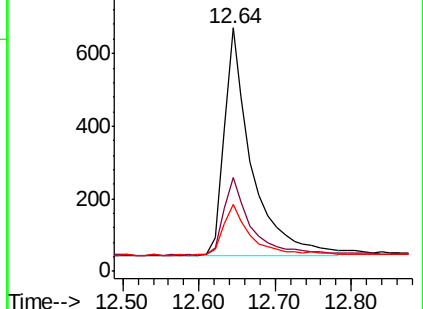
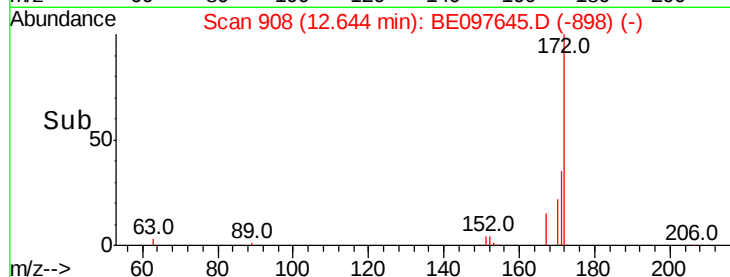
170 27.4 21.8 32.8



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.185 ng

RT: 13.73 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

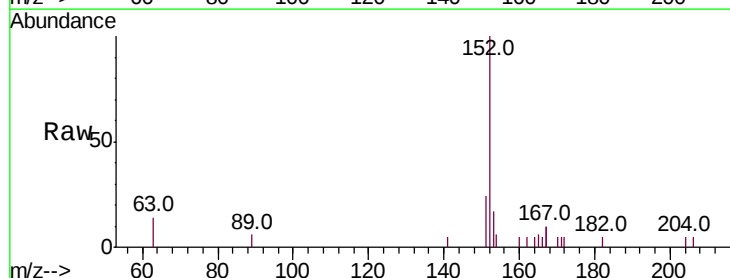
Tgt Ion:152 Resp: 1837

Ion Ratio Lower Upper

152 100

151 20.6 15.7 23.5

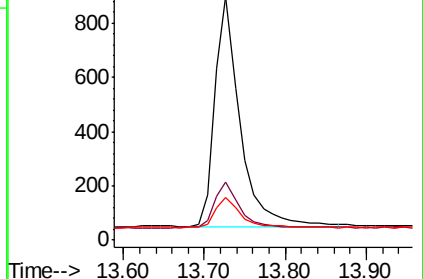
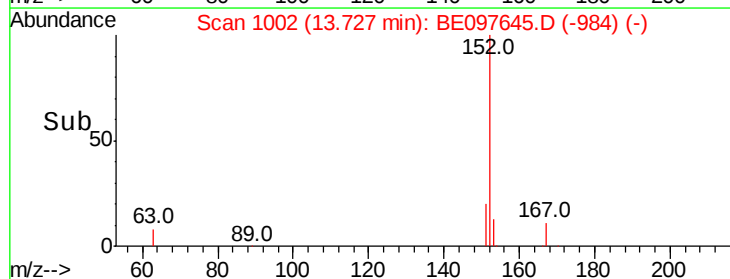
153 13.4 10.5 15.7

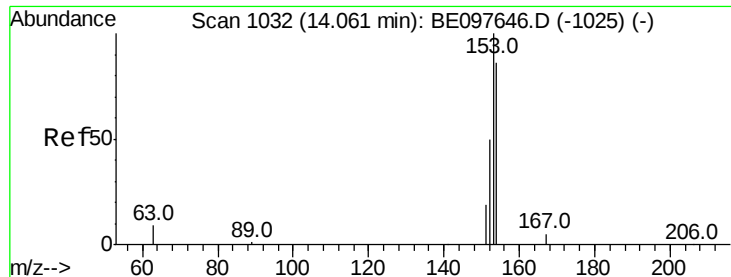


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.191 ng

RT: 14.07 min Scan# 1032

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

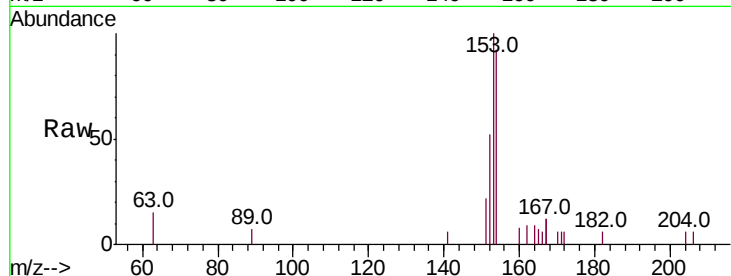
Tot Ion:154 Resp: 1276

Ion Ratio Lower Upper

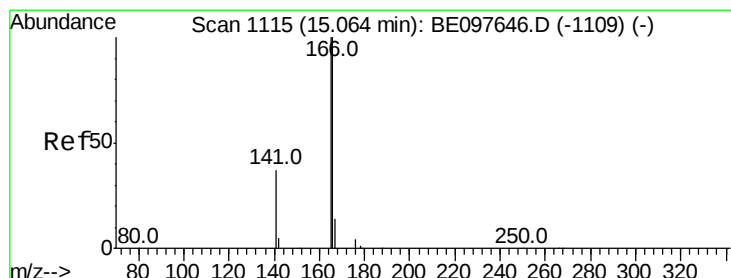
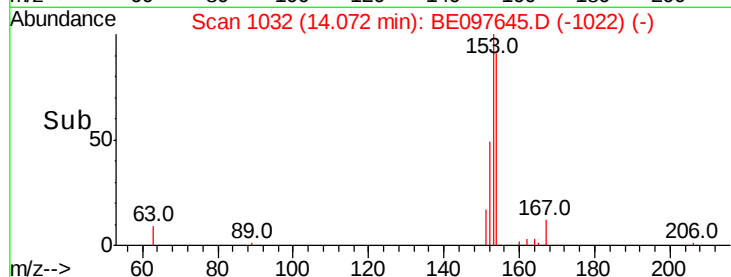
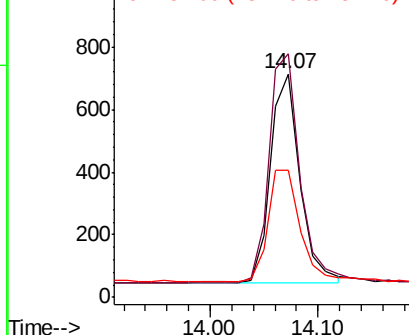
154 100

153 114.0 89.2 133.8

152 57.9 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.202 ng

RT: 15.07 min Scan# 1115

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

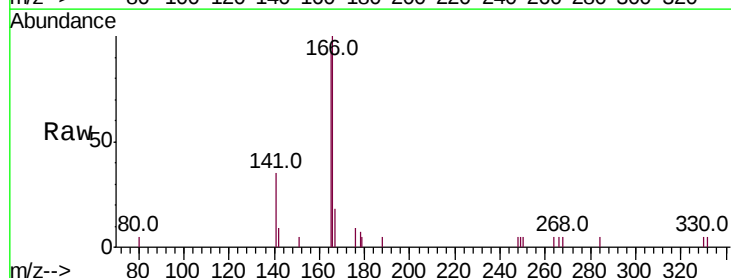
Tgt Ion:166 Resp: 1758

Ion Ratio Lower Upper

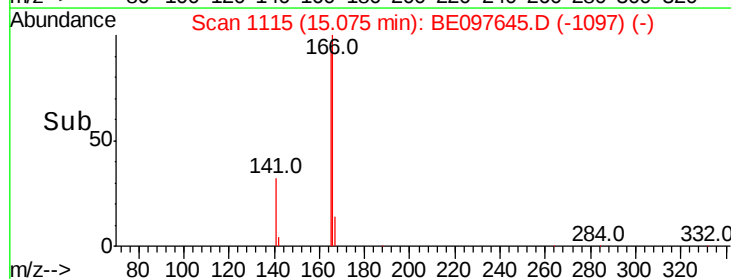
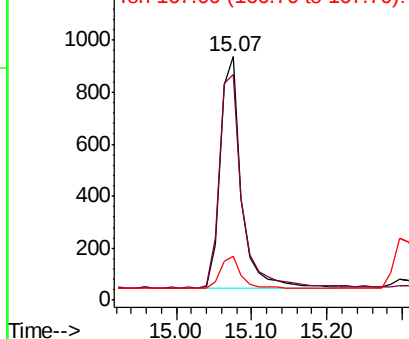
166 100

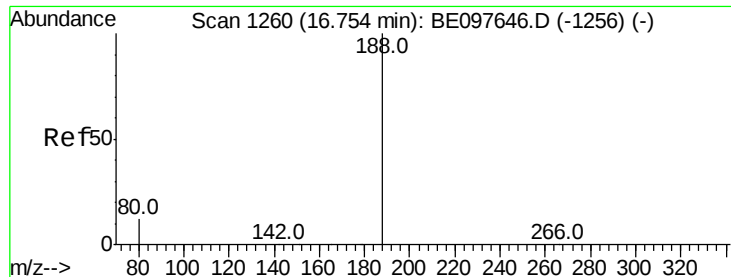
165 98.5 77.8 116.6

167 13.9 42.4 63.6#



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

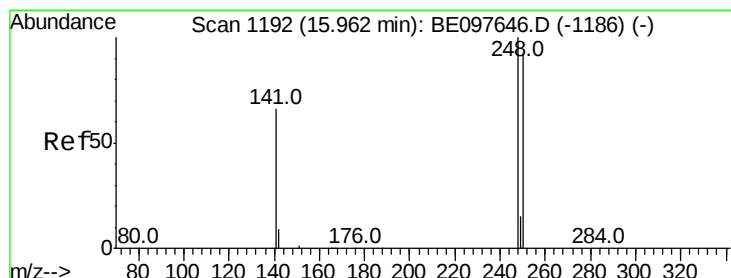
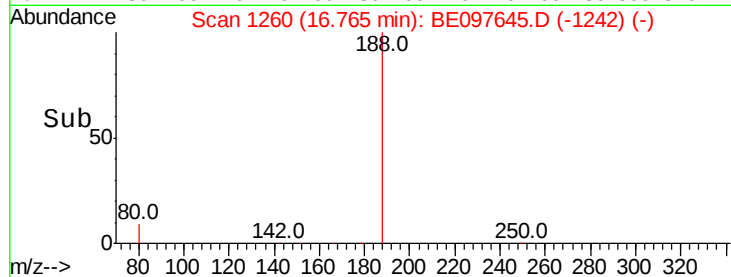
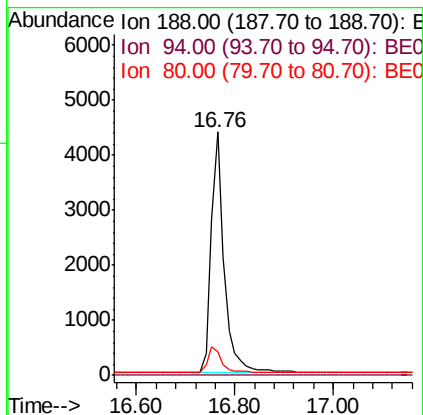
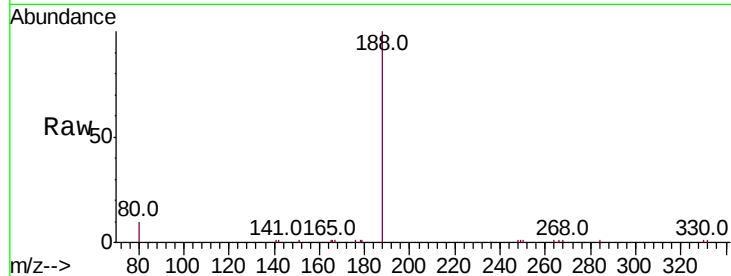




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.76 min Scan# 1260  
Delta R.T. 0.01 min  
Lab File: BE097645.D  
Acq: 24 Sep 2018 15:08

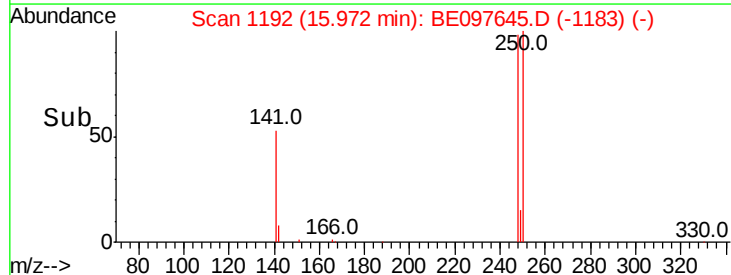
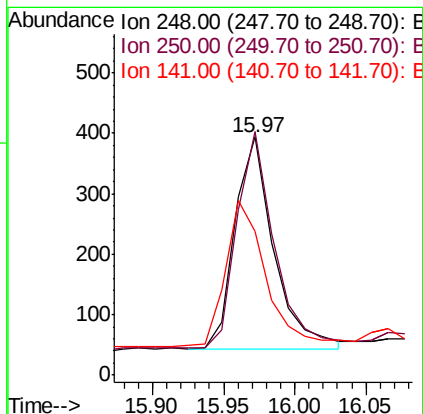
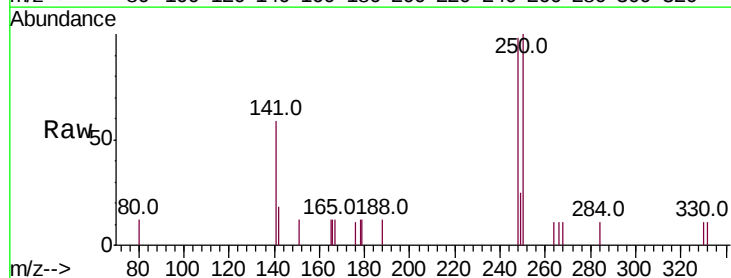
Instrument :  
BNA\_E  
ClientSampleId :

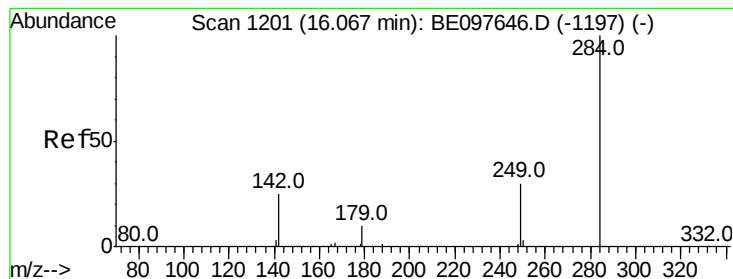
Tot Ion:188 Resp: 8067  
Ion Ratio Lower Upper  
188 100  
94 0.0 3.9 5.9#  
80 9.7 3.6 5.4#



#20  
4-Bromophenyl-phenylether  
Concen: 0.184 ng  
RT: 15.97 min Scan# 1192  
Delta R.T. 0.01 min  
Lab File: BE097645.D  
Acq: 24 Sep 2018 15:08

Tgt Ion:248 Resp: 671  
Ion Ratio Lower Upper  
248 100  
250 102.3 62.7 94.1#  
141 60.4 48.2 72.2





#21

Hexachlorobenzene

Concen: 0.205 ng

RT: 16.08 min Scan# 1201

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

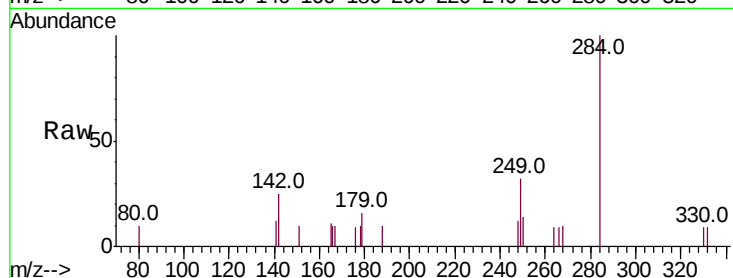
Tot Ion:284 Resp: 818

Ion Ratio Lower Upper

284 100

142 31.4 22.1 33.1

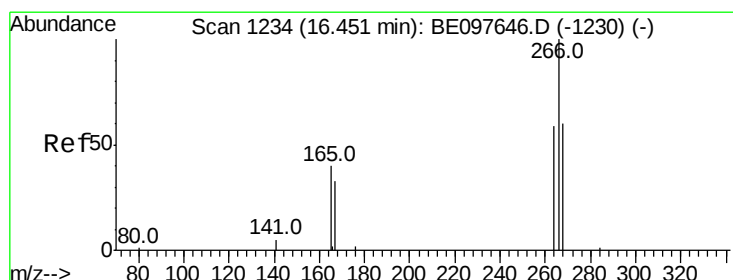
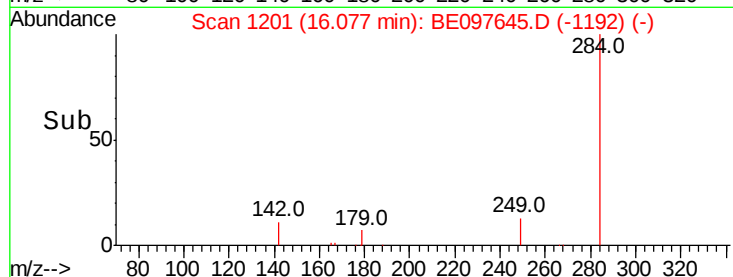
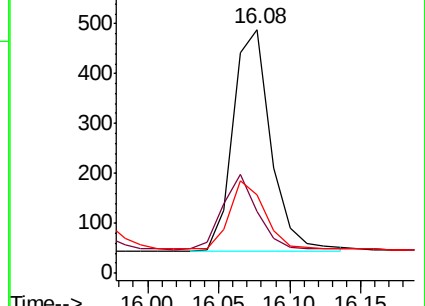
249 28.7 34.8 52.2#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.086 ng

RT: 16.46 min Scan# 1234

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

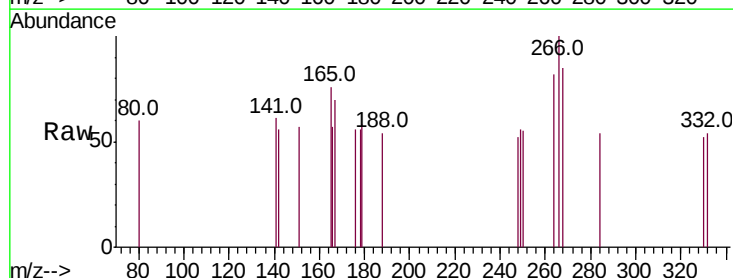
Tgt Ion:266 Resp: 120

Ion Ratio Lower Upper

266 100

264 82.1 72.5 108.7

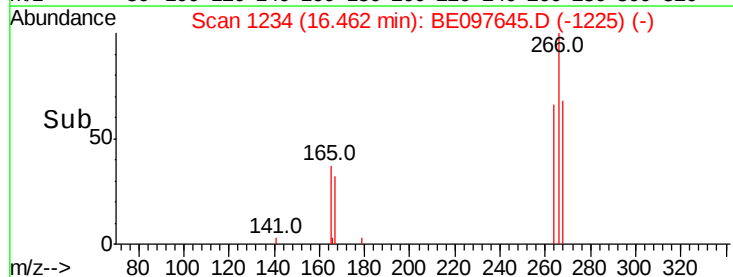
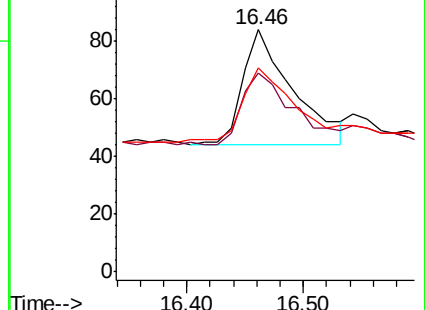
268 84.5 73.8 110.6

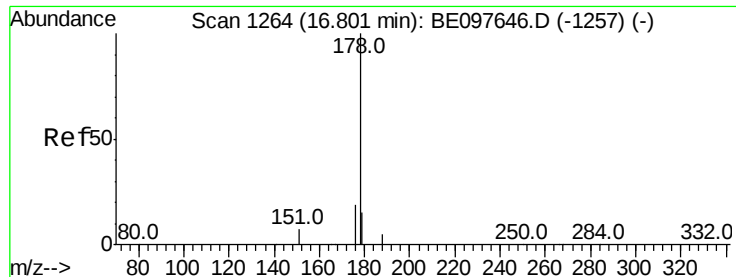


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.185 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :

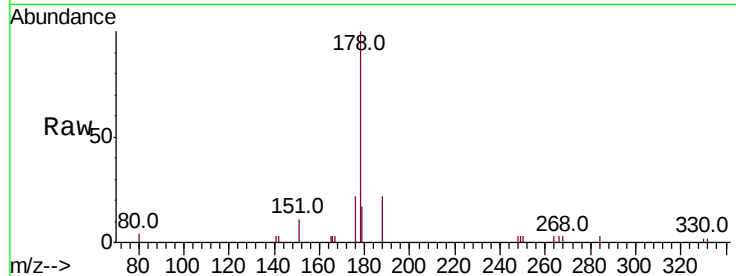
Tot Ion:178 Resp: 3546

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

179 15.3 11.8 17.6

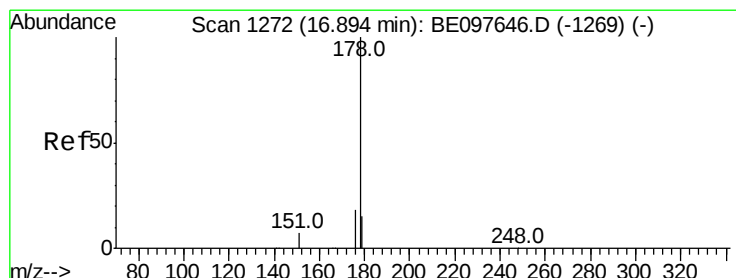
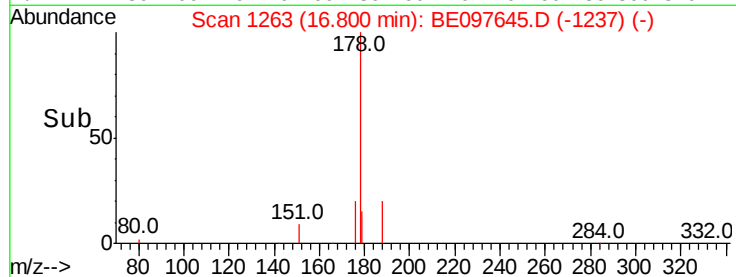
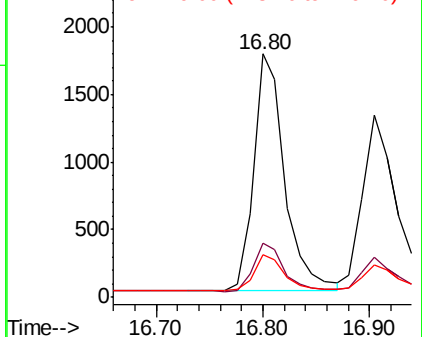


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.164 ng

RT: 16.90 min Scan# 1272

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

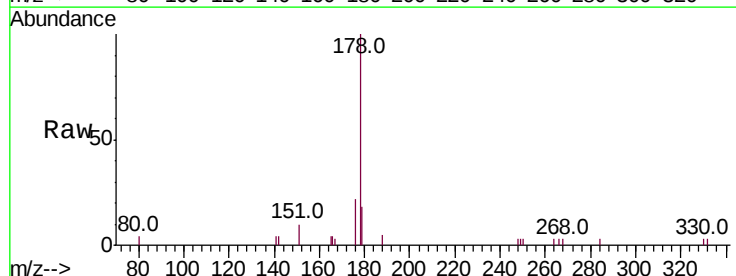
Tgt Ion:178 Resp: 2778

Ion Ratio Lower Upper

178 100

176 18.9 12.8 19.2

179 15.0 13.0 19.6

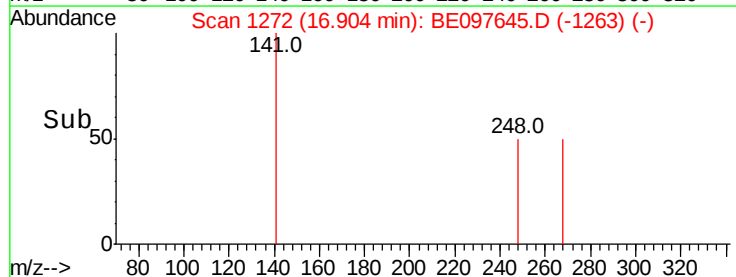
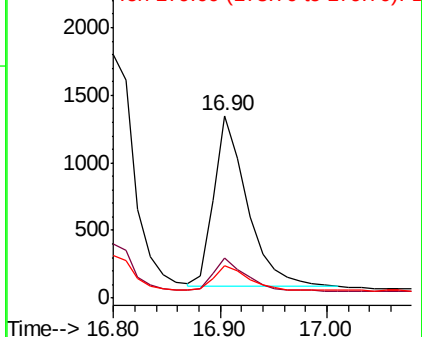


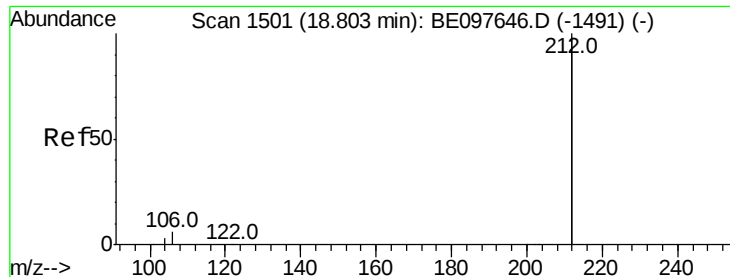
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.164 ng

RT: 18.81 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

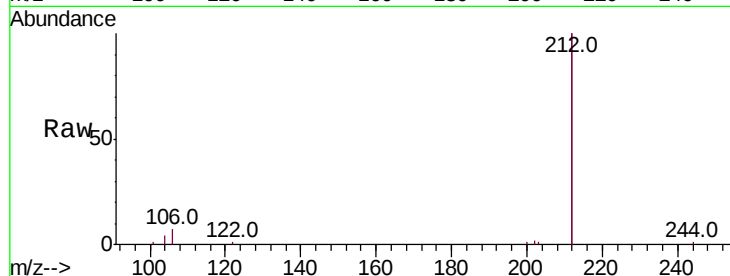
Tot Ion:212 Resp: 16954

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

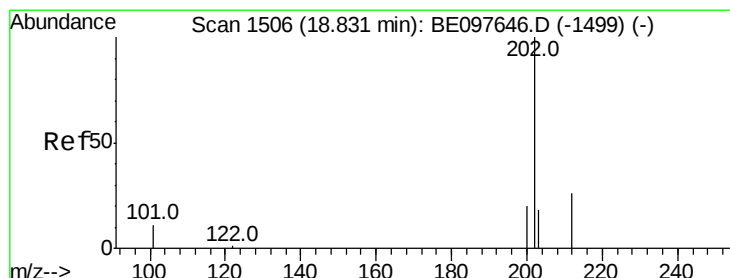
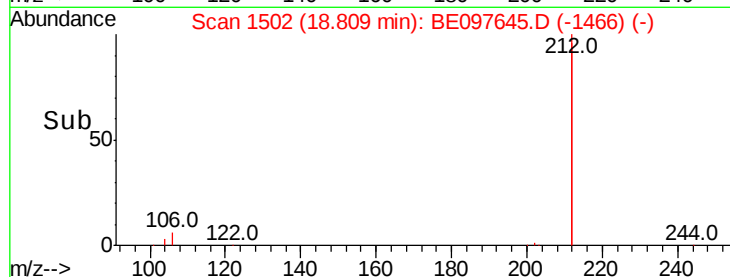
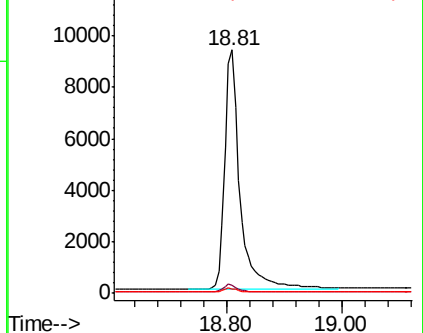
104 1.6 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.156 ng

RT: 18.84 min Scan# 1507

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

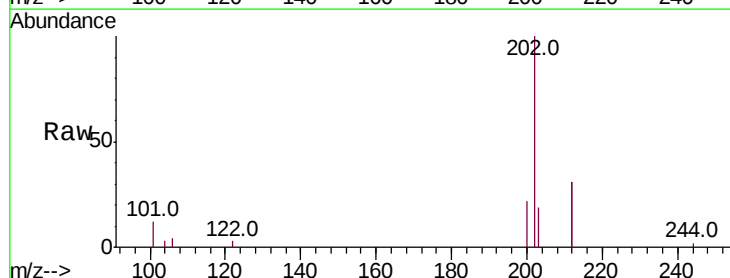
Tgt Ion:202 Resp: 4136

Ion Ratio Lower Upper

202 100

101 10.8 9.8 14.8

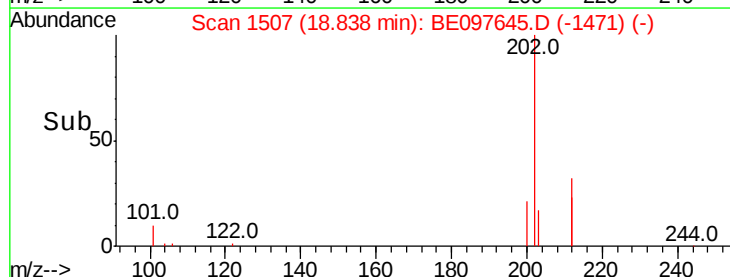
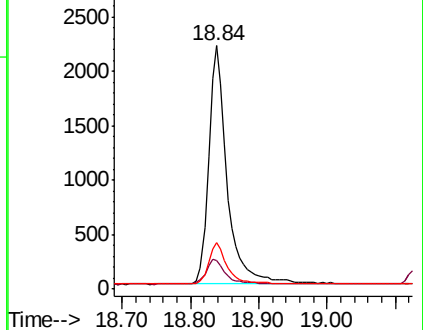
203 16.8 13.7 20.5

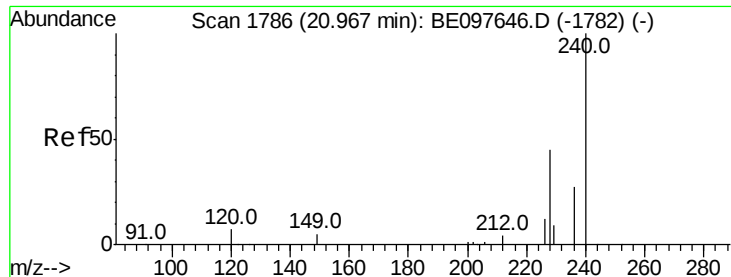


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.97 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

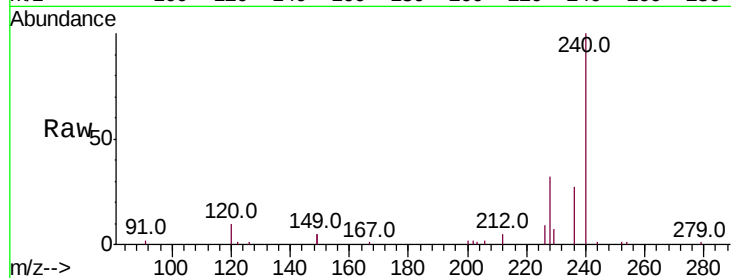
Tot Ion:240 Resp: 8415

Ion Ratio Lower Upper

240 100

120 10.3 5.5 8.3#

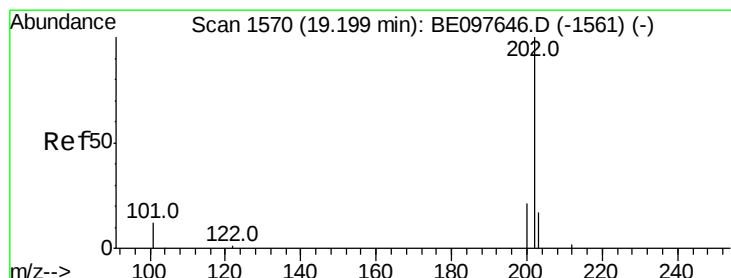
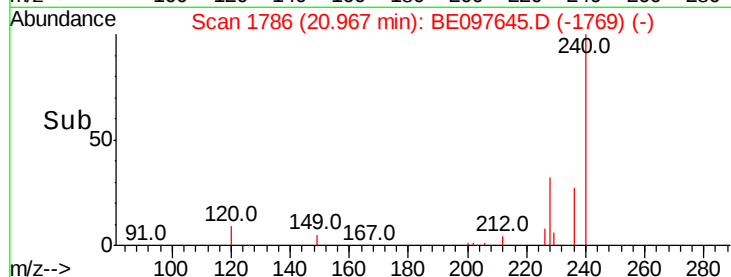
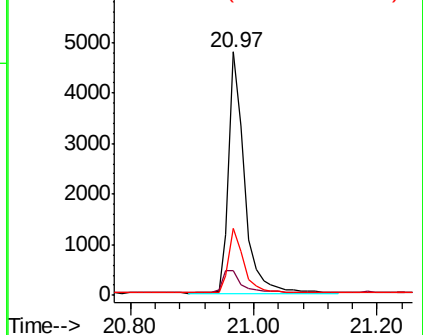
236 27.4 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.232 ng

RT: 19.21 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

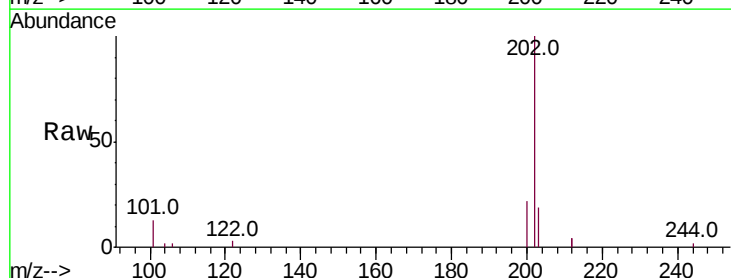
Tgt Ion:202 Resp: 4452

Ion Ratio Lower Upper

202 100

200 20.7 16.6 25.0

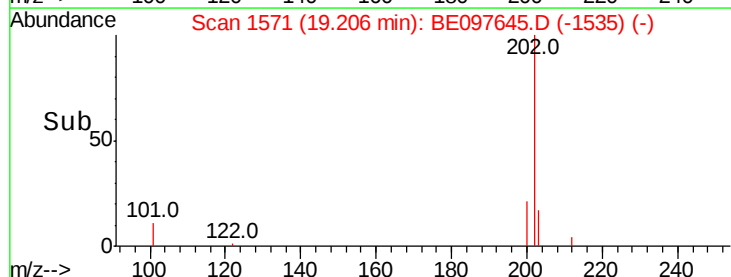
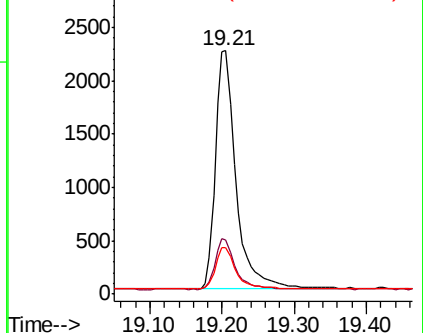
203 17.3 13.8 20.8

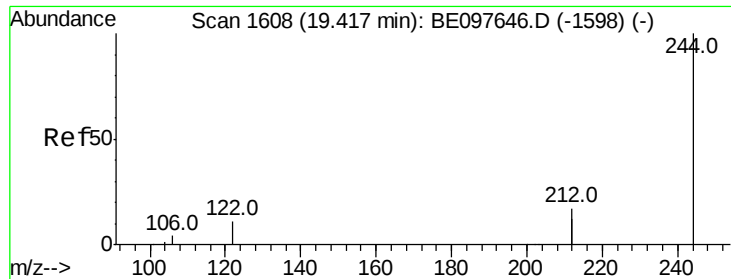


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.210 ng

RT: 19.42 min Scan# 1609

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :

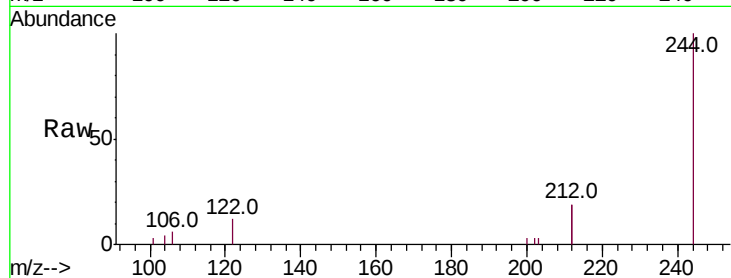
Tot Ion:244 Resp: 3230

Ion Ratio Lower Upper

244 100

212 37.8 25.4 38.0

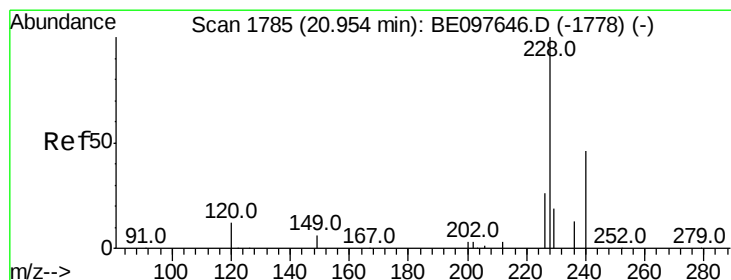
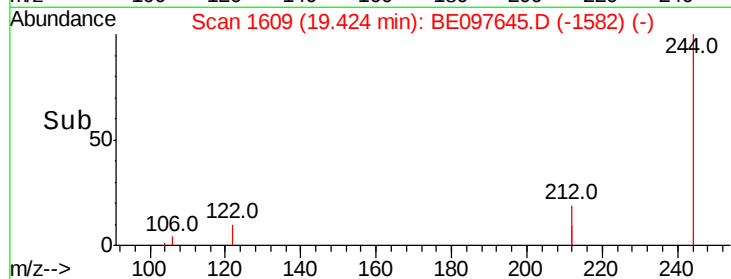
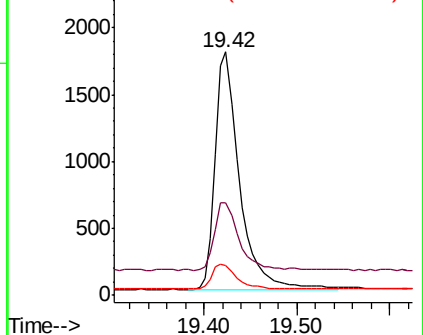
122 12.1 8.1 12.1#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.160 ng

RT: 20.95 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

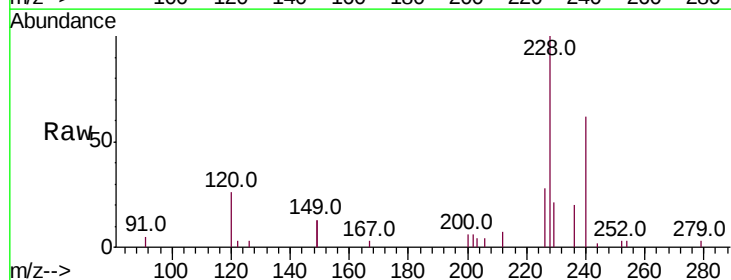
Tgt Ion:228 Resp: 3387

Ion Ratio Lower Upper

228 100

226 27.9 24.0 36.0

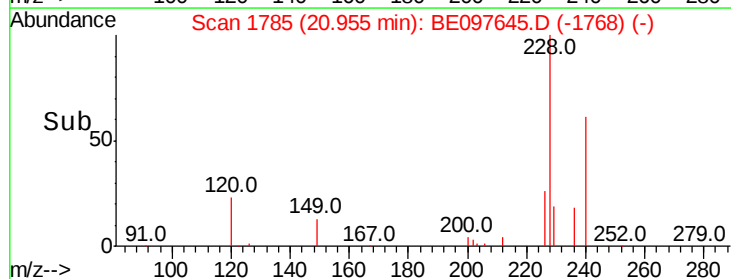
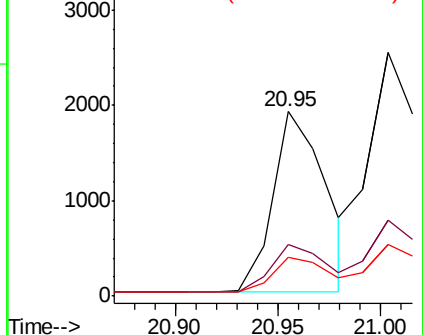
229 21.2 16.0 24.0

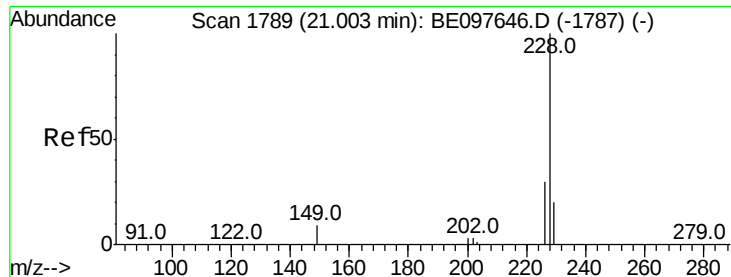


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.213 ng

RT: 21.00 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

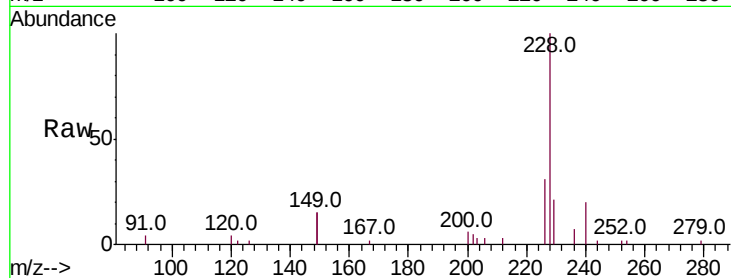
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 4833

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.0  | 24.0  | 36.0  |
| 229 | 21.1  | 16.0  | 24.0  |

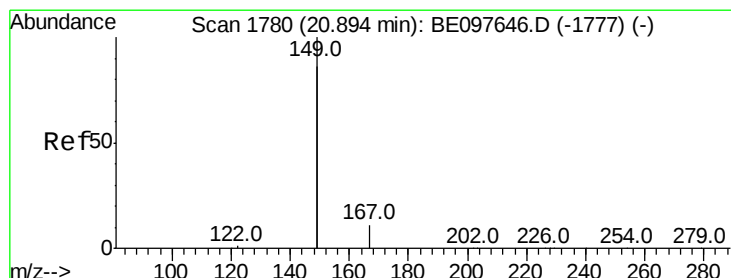
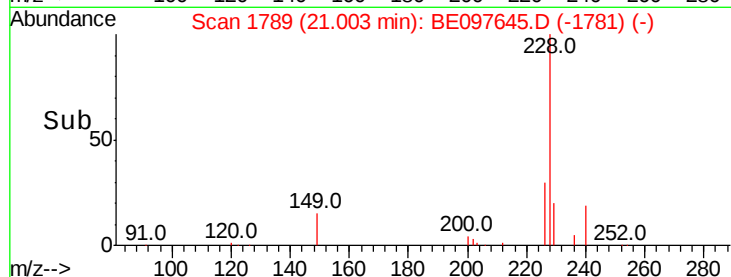
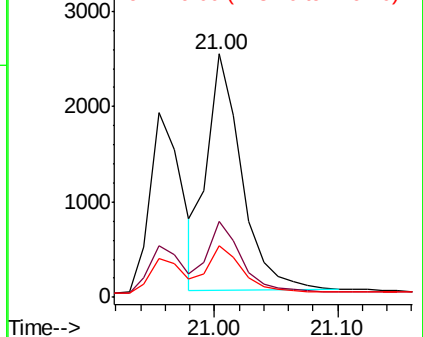


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.101 ng

RT: 20.89 min Scan# 1780

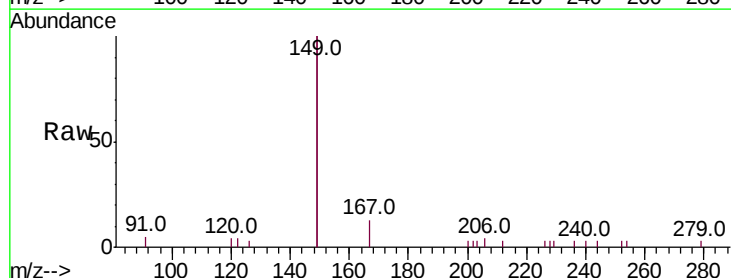
Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Tgt Ion:149 Resp: 4247

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.1   | 5.4   | 8.0   |
| 279 | 1.3   | 0.7   | 1.1#  |

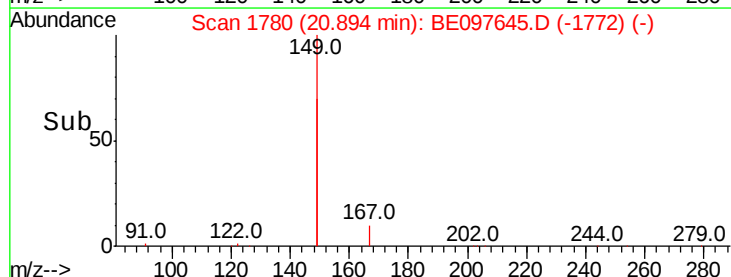
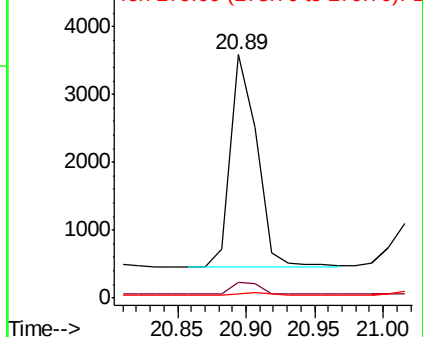


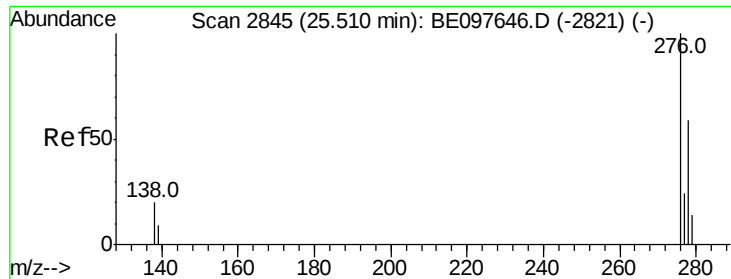
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.175 ng

RT: 25.52 min Scan# 2848

Delta R.T. 0.01 min

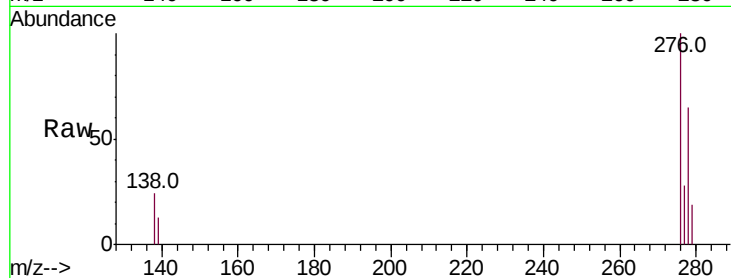
Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :



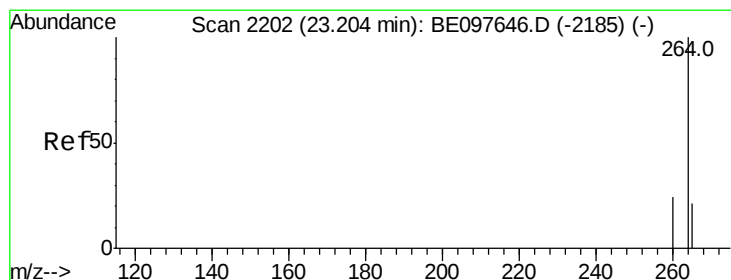
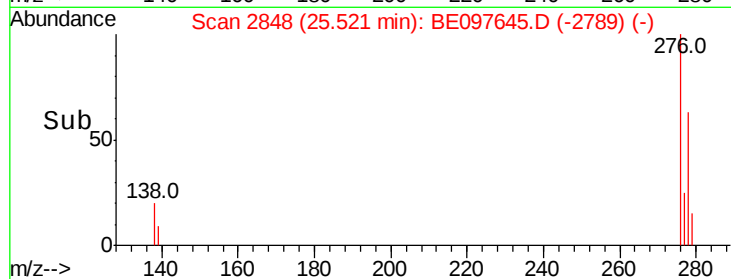
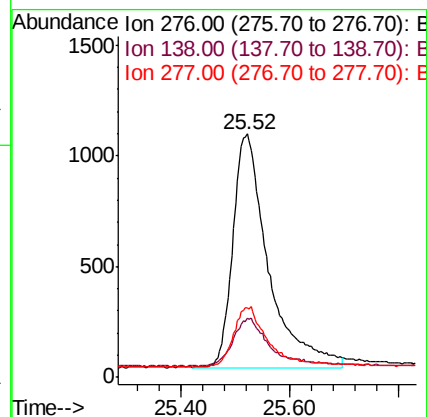
Tot Ion:276 Resp: 4793

Ion Ratio Lower Upper

276 100

138 20.1 22.5 33.7#

277 24.6 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.21 min Scan# 2203

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

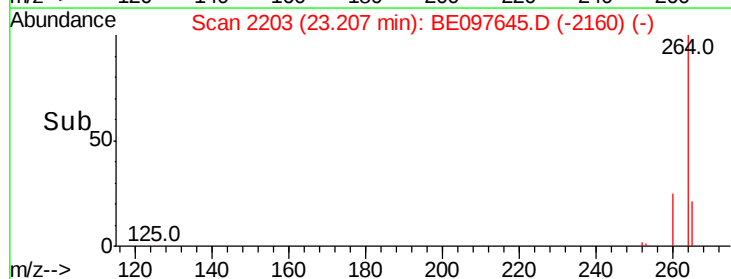
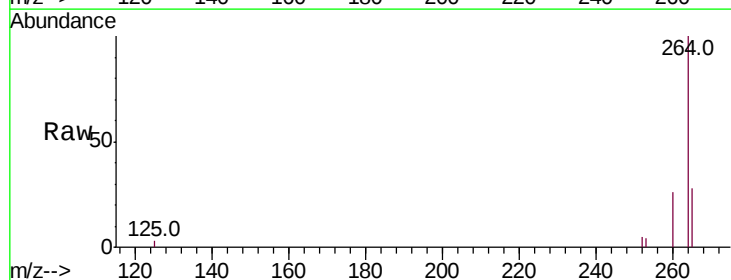
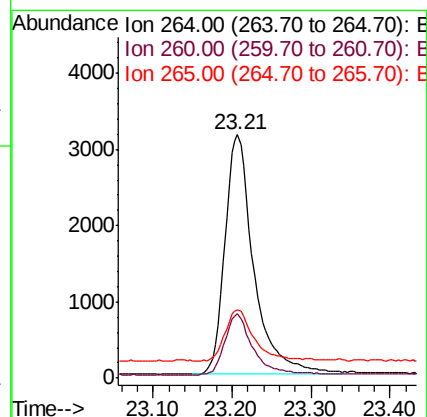
Tgt Ion:264 Resp: 8016

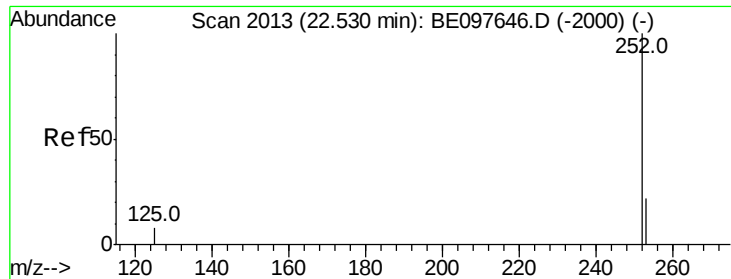
Ion Ratio Lower Upper

264 100

260 26.3 20.5 30.7

265 27.9 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.183 ng

RT: 22.54 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampled :

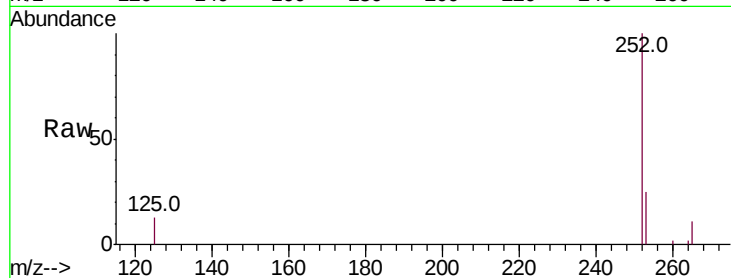
Tot Ion:252 Resp: 3760

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

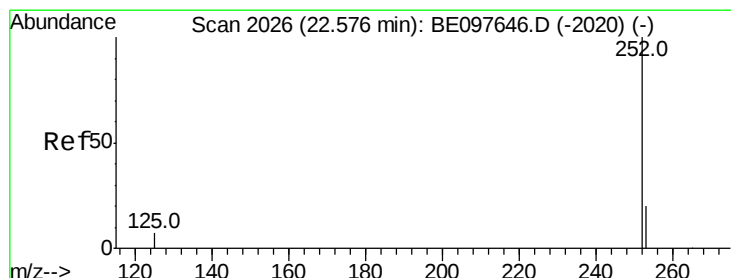
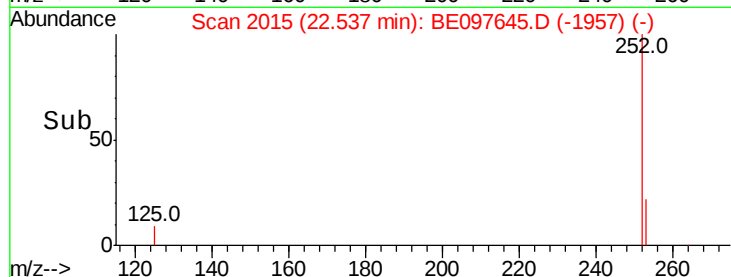
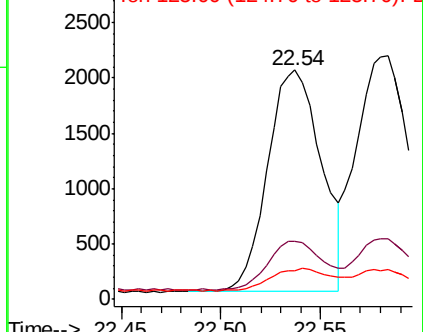
125 12.7 16.0 24.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.192 ng

RT: 22.58 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

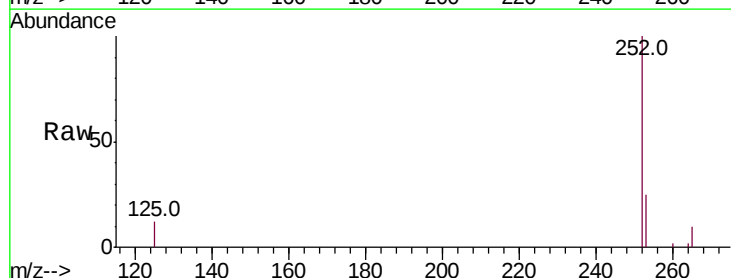
Tgt Ion:252 Resp: 4518

Ion Ratio Lower Upper

252 100

253 25.0 16.0 24.0#

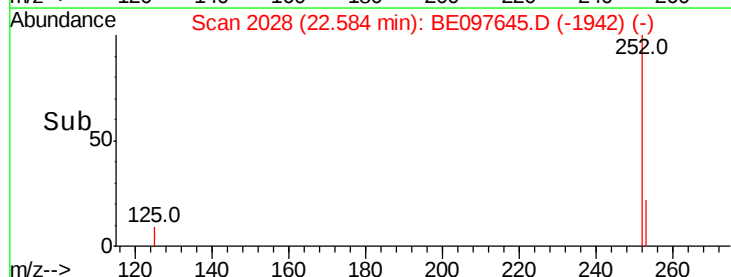
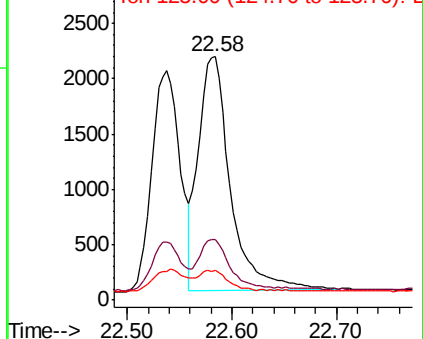
125 12.0 8.0 12.0

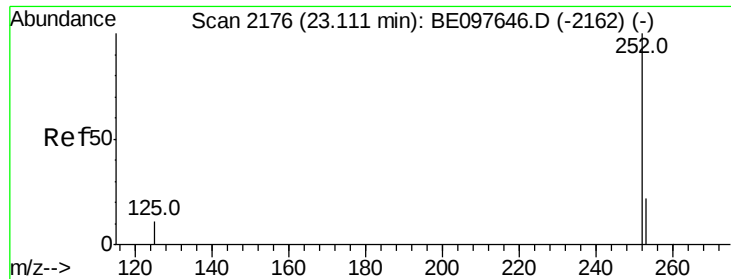


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.182 ng

RT: 23.11 min Scan# 2177

Delta R.T. 0.00 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

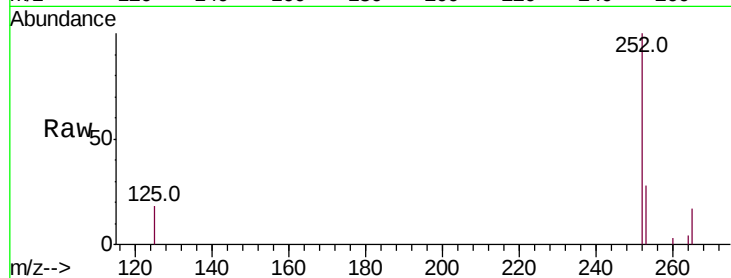
Tot Ion:252 Resp: 3844

Ion Ratio Lower Upper

252 100

253 28.0 16.0 24.0#

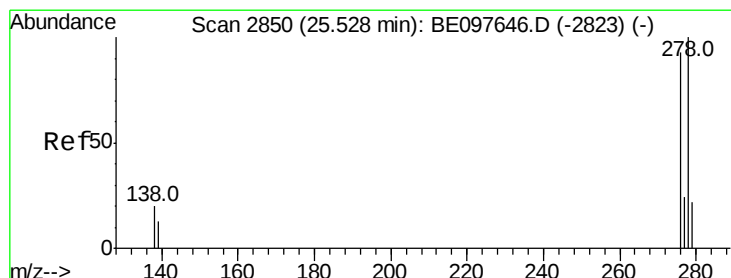
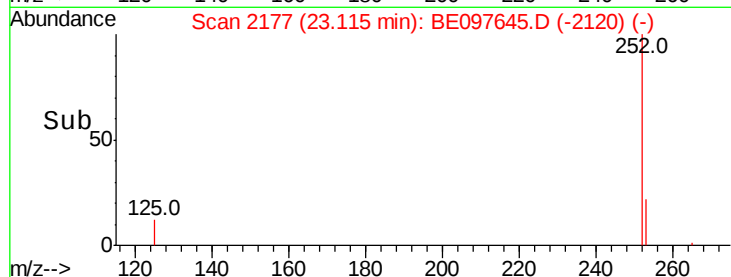
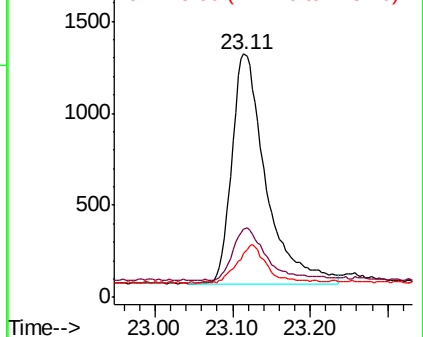
125 18.0 12.0 18.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.179 ng

RT: 25.54 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

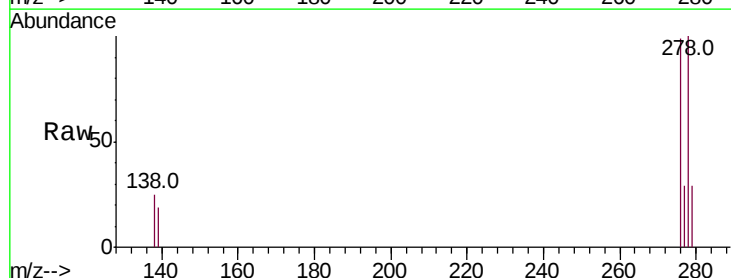
Tgt Ion:278 Resp: 3860

Ion Ratio Lower Upper

278 100

139 19.1 16.0 24.0

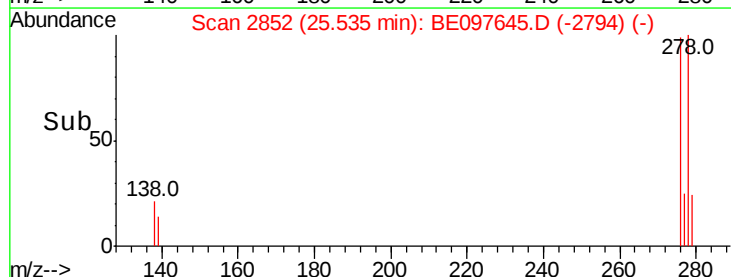
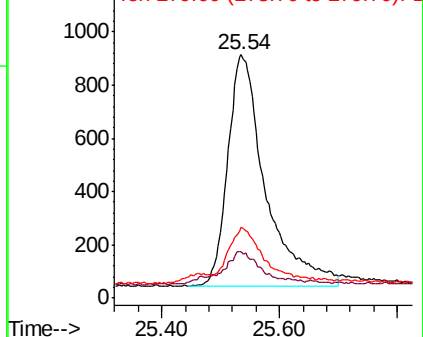
279 29.2 20.0 30.0

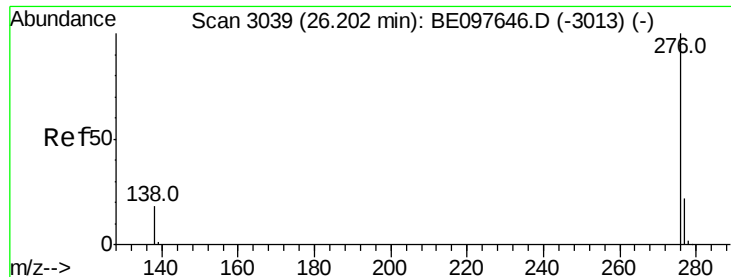


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.188 ng

RT: 26.22 min Scan# 3044

Delta R.T. 0.02 min

Lab File: BE097645.D

Acq: 24 Sep 2018 15:08

Instrument :

BNA\_E

ClientSampleId :

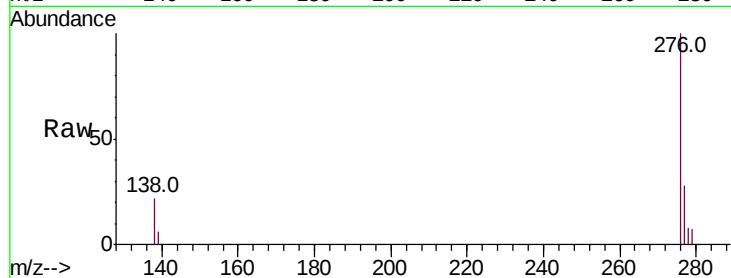
Tot Ion: 276 Resp: 3946

Ion Ratio Lower Upper

276 100

277 28.0 16.0 24.0#

138 22.0 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

